

Daily Challenge

Happy Coding from necse



SKILLRACK

## Pattern Printing Middle Letter - Odd Length String [ZOHO]

An odd length string  $S$  is passed as the input. The program must print the pattern as described below.

Let  $L$  be the length of the string and  $M$  denote the middle position of the string  $S$ . The characters in the string are  $a(1), \dots, a(M), \dots, a(L)$ .

- The first line will contain the middle letter  $a(M)$  of  $S$  in the extreme right.
- Then in each subsequent line, the letters after the middle letter from  $a(M+1)$  to  $a(L)$  is appended to the line output.
- After the end of the string  $a(L)$  is reached, in each subsequent line, the letters from the beginning to the middle letter,  $a(1)$  to  $a(M-1)$  are appended to the line output.

**Note:** Asterisk  $*$  will be used to pad in the front so that each line has  $L$  characters

### Input Format:

The first line will contain  $S$ .

### Output Format:

$L$  lines as output where  $L$  is the length of the string  $S$ .

### Boundary Conditions:

$3 \leq L \leq 1001$

### Example Input/Output 1:

Input:

CRY

Output:

\*\*R

\*RY

RYC

### Example Input/Output 2:

Input:

PROGRAM

Output:

\*\*\*\*\*G

\*\*\*\*\*GR

\*\*\*\*GRA

\*\*\*GRAM

\*\*GRAMP

\*GRAMPR

GRAMPRO

**Max Execution Time Limit: 5000 millisecs**

Ambiance

Java ( 12.0)



```
1  import java.util.*;|
2  public class Main{
3      public static void main(String[] args) {
4          Scanner sc=new Scanner(System.in);
5          String str=sc.nextLine();
6          String res="";
7          int len=str.length();
8          int mid=len/2;
9          int k=0;
10         res+=(str.substring(mid,len));
11         res+=str.substring(0,mid);
12         for(int i=0;i<len;i++){
13             String m=res.substring(k,i+1);
14             if(m.length()<len){
15                 int a=len-m.length();
16                 for(int l=0;l<a;l++){
17                     System.out.print("*");
18                 }
19             }
20             System.out.println(res.substring(k,i+1));
21         }
22     }
23
24 }
```

1912080@nec

Save

Run